

## Take Test: Quiz 3.5 **Test Information** Description Instructions Multiple Attempts This test allows multiple attempts. Force Completion This test can be saved and resumed later. QUESTION 1 1 points Saved True or false? The only way to create a state-space model from a transfer function is via phase variable form. True False ▼ Question Completion Status: **QUESTION 2** 1 points Saved

Which of the following is most correct?

- A transfer function coorresponds to multiple state-space models.
- A transfer function corresponds to an infinite number of state-space models.
- A transfer function does not correspond to any state-space models.

QUESTION 3		1 points	Saved
Which of the following accurately describes model for a transfer function with an $m^{\mathrm{th}}$ or		rder	
denominator?			
<ul> <li>The state vector has Π elements.</li> </ul>			
$\bigcirc$ The state vector has $n + m$ elements.			
$\bigcirc$ The state vector has $n+1$ elements.			
<ul> <li>The state vector has <i>m</i> elements.</li> </ul>			
QUESTION 4		1 points	Saved
In phase variable form, the coefficient in appear in	nts of the transfer functi	on	
$_{ullet}$ The $A$ and $C$ matrices.			
$_{\bigcirc}$ The $B$ and $C$ matrices.			
$_{\bigcirc}$ The $A$ and $B$ matrices.			
○ The A matrix only.			
Click Save and Submit to save and submit. Clic	ck Save All Answers to save a	ill answers.	